

Dr. Technical Sci.

COLUMEY, I. F., Senior Scientific Associate of the Sci Res Inst of Nitrogen

"Viscosity and Heat Conduction of Gases Under High Pressures." Sub 21 Feb 47, Moscow Order of Lenin Power Engineering Inst imeni V. M. Molotov

Dissertations presented for degrees in science and engineering in Moscow in 1947

SO: Sum No. 457, 18 Apr 55

Goluber, I.F.

USSR/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions.

B.-8

Abs Jour: Referat. Zhurral Khimiya, No 2, 1958, 3831.

: State Scientific Research and Planning Institute of Nitrogen Author : N.V. Meshcheryakov, I.F. Golubev,

Inst

: Viscosity of Hydrocarbon Gaseous Mixtures at High Pressures. Title

Orig Pub: Tr. Gos. n.-i. i proyektn. in-ta azotn. prom-sti, 1954, vyp. 3, 27-45.

Abstract: The viscosity of gaseous mixtures methane (I) - propane (II), ethane - ethylene, ethane - propylene at temperatures up to 250° and pressures up to 600 abs. atm. and of mixtures ethane ethylene - propylene at 50, 100 and 1500 and pressures up to 450 abs. atm. was determined by the capillary method (RZhKhim, 1955, 53138). The lower the temperature is, the more the mix-

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> APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910010

USSR/Physical Chemistry - Thermodynamics, Thermochemistry, Equilibria, Physical-Chemical Analysis, Phase Transitions.

Abs Jour: Referat. Zhurnal Khimiya, No 2, 1958, 3831.

B-8

determined by the rolling ball method and the data of the authors were stated.

Card

: 3/3

SOV/124-58-1-873

Translation from: Referativnyy zhurnal, Mekhanika, 1958, Nr 1, p 117 (USSR)

AUTHORS: Golubev, I.F., Meshcheryakov, N.V., Olevskiy, V.M.

TITLE: Rotor Rectification Columns With Turbulence Stimulation in Liquid and

Vapor (Rotornyye rektifikatsionnyye kolonki s turbulizatsiyey

zhidkosti i para)

PERIODICAL: Tr. Gos. n. -i. i proyektn. in-ta azotn. prom-sti, 1956, Nr 5,

pp 316-328

ABSTRACT: The authors present designs for rotor-type rectification columns (glass or metal) with concurrent mechanical turbulence stimulation in the liquid and the vapor; these designs were developed and tested

in the Process and Equipment Laboratory of the GIAP (Gosudarstvennyy institut azotnoy promyshlennosti - State Institute of the Nitrogen Industry. In operations on standard and working mixtures the columns exhibited an elevated effectiveness with a comparatively

small hydraulic resistance. The angular speed of the rotor did not exceed 1400 rpm. The design of a multicylinder rotor rectification column with opposite-sense rotation of adjacent cylinders is des-

Card 1/2 cribed. The authors are of the opinion that columns of such type

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SOV/124-58-1-873

Rotor Rectification Columns With Turbulence Stimulation Liquid (cont.)

may be capable of high productivity. Considerations are adduced relative to the advisability of the application of rotor rectification columns with mechanical turbulence stimulators for vacuum rectification. Bibliography: 9 references.

Yu. A. Lashkov

Card 2/2

Goluber

USSR/Statistical Physics - Thermodynamics.

D-3

THE PARTY

Abs Jour

: Referat Zhur - Fizika, No 5, 1957, 11438

Author

: Olervskiy, V.M., Golubev, I.F.

Inst

Title

: A Study of the Vapor-Liquid Equilibrium at Commercial

Pressures.

Orig Pub

: Tr. Gos. n.-i, i proyekt, in-ta azot. prom-sti, 1956,

vyp б, 45-51

Abstract

: An estimate is made of various methods of experimental investigation of the vapor-liquid equilibrium. The authors describe an instrument they employ for this purpose. The construction makes it possible, without introducing substantial disturbances to the state of the system, to sample from it both liquid and vapor phase and to operate at pressures above atmospheric. Experimental data are obtained for the equilibrium in the system of methyl alcohol -- water for various pressures at temperatures of 170, 200, and

Card 1/2

USSR/Statistical Physics - Thermodynamics

D-3

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 11438

2350. The results are in good agreement with those obtained by other workers.

Bibliography, 12 titles.

Card 2/2

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USSR / Gases.

D-7

Abs Jour

: Ref Zhur - Fizika, No 4, 1957, No 9064

Author

: Golubev, I.F., Meshcheryakov, N.V.

Title

: Use of the law of Corresponding States in the Determination of the Viscosity of Gases at Various Temperatures and Pressures.

Orig Pub

: Tr. gas. n.-i. i proyekt. in-ta azot. prom-sti, 1956, vyp. 6, 52-55

Abstract

: It is shown that the law of corresponding states, in which one of the variables is the ratio of the viscosity of the substance at a pressure Prand temperature to the viscosity at the same temperature and pressure of one atmosphere, namelymp t/Mt gives a correct qualitative picture for the variation of viscosity of various substances (Referat Zhur Fizika, 1955, 641) with the temperature and pressure. The authors give a corresponding graph in the form of isotherms

Card

: 1/2

OLEVSKIY, V.M., kand.tekhn.nauk; GOLUBEV, I.F., doktor tekhn.nauk

Vapor - liquid equilibrium in the systems tetrachloropropanetetrachloropentane and tetrachloropentane - tetrachloroheptane
at reduced pressures. Trudy GIAP no.7:42-46 '57.

(Phase rule and equilibrium) (Paraffins) (Vapor pressure)

GOLUBEY, I.F., doktor tekhn.nauk Determining the specific gravity of liquids and gases at high pressures by the hydrostatic weighing method. Trudy GIAP no.7:47-61 157. (MIRA 12:9)

OLEVSKIY, V.M., kand.tekhn.nauk; GOLUBEV, I.F. doktor bikin.nauk

Analysis of mixtures of xylene isoners by measuring viscosity and freezing point. Trudy GIAP no.7: 316-322 '57.

(Xylene)

(MIRA 1219)

. . . .

GOLUMEY, I.F., dektor tekhn.nauk; OLEVSKIY, V.M., kand. tekhn. nauk

Vapor - liquid equilibrium in the system acetic anhydride - propionic acid. Trudy GIAP no.8:58-62 '57. (MIRA 12:9) (Acetic anhydride) (Propionic acid) (Phase rule and equilibrium)

24(0)

PHASE I BOOK EXPLOITATION

SOV/2762

Golubev, Il'ya Fedorovich

Vyazkost' gazov 1 gazovykh smesey, spravochnoye rukovodstvo (Viscosity of Gases and Gas Mixtures; a Manual) Moscow, Fizmatgiz, 1959. 375 p. Ed.: K.P. Gurov; Tech. Ed.: S.S. Gavrilov.

This book is intended for members of scientific research institutes PURPOSE: as well as for technical personnel concerned with gas viscosity problems,

COVERAGE: The book presents principles of the kinematic viscosity of gas and gas mixtures. Existing methods of measuring gas viscosity are reviewed and instruments used for this purpose described. Results of experimental viscosity measurements for liquids and gas under different temperature and pressure conditions are discussed and the relationship between gas viscosity and temperature is analyzed. Viscosity of compressed gas and gas mixtures and computation of viscosity coefficients are reviewed and results of experiments summarized. The appendix contains eleven tables listing viscosity index,

Card 1/5

Viscosity of Gases (Cont.)		
density of mercury vapors, mercury and gas contraction, coefficient expansion of glass and platinum, etc. There are 161 references.	ents of lines	r
oreword		
h. I. Viscosity of Gas	5	
1. General information and viscosity coefficients 2. Elementary kinematic-molecular the	7	
motion of the average velocity of the Average velocity	7 10	
4. Determination of the average length of the free path of	15	
displacement (heat conductivity and difference)	18	
· II. Experimental Measurement	24	
1. Capillary method	26	
rd 2/5	26	

S/081/62/000/002/041/107 B151/B108

AUTHORS:

Naziyev, Ya. M., Golubev, I. F.

TITLE:

An equation for calculations on bicalorimeters of arbitrary

form

PERIODICAL:

Referativnyy zhurnal. Khimiya, no. 2, 1962, 171, abstract

2Ye36 (Izv. AN AzerbSSR. Ser. fiz.-matem. i tekhn. n., no. 6,

1960, 145 - 149)

TEXT: A simplified equation is deduced for the heat conductivity for bicalorimeters of arbitrary form. The results of calculations using this equation do not differ by more than 0.1 - 0.2% from those obtained using exact equations. Abstracter's note: Complete translation.

Card 1/1

KLYACHNIKOV, V.M., kand. sel'khoz. nauk; GOLUBEV, I.F., kend. sel'khoz. nauk; SHLEPANOV, V.M., red.

[Apparatus and equipment for demonstration farms] Pribory i oborudovanie dlia oporno-pokazatel'nykh khoziaistv.
Moskva, Sel'khozizdat, 1962. 183 p. (MIRA 17:10)

GOLUBEV, I.F.; NAZIYEV, Ya.M.

Heat conductivity of gaseous satruated hydrocarbons at atmospheric pressure at different temperatures. Izv. AN Azerb. SSR. Ser.fiz.-mat. i tekh.nauk no.5:97-104 '61. (MIRA 15:2) (Hydrocarbons--Thermal properties)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910010-9"

Goluber, I.F.

AID Nr. 980-9 31 May

THERMAL CONDUCTIVITY OF SATURATED HYDROCARBONS AT VARIOUS TEMPERATURES AND HIGH PRESSURES (USSR)

Naziyev, Ya. M., and I. F. Golubev. IN: Akademiya nauk Azerbaydzhanskoy SSR. Izvestiya. Seriya fiziko-matematicheskikh i tekhnicheskikh nauk, no. 6, 1962, 113-118. S/233/62/000/006/008/008

The data on the temperature and pressure dependence of thermal conductivity for normal alkanes (from methane to octane) can be generalized by means of existing theoretical and empirical formulas, but the applicability of these formulas is limited. In order to obtain a satisfactory generalization for alkanes, the authors used the known expression

$$\lambda_{\mathbf{p},\mathbf{t}} - \lambda_{\mathbf{t}} = f(\gamma), \tag{1}$$

Card 1/3

AID Nr. 980-9 31 May .

THERMAL CONDUCTIVITY [Cont'd]

8/233/62/000/006/008/008

where $\lambda_{p,t}$ is the thermal conductivity at pressure (p) and temperature (t), λt is the thermal conductivity at atmospheric pressure and temperature (t), and Y is the specific gravity. A graphic presentation of (1) shows very good distribution of the experimental points along an averaged curve. The Vargaftik (1952) equation

$$\lambda_{p_{\rho}t} = \lambda_{t} + B\gamma^{n'}$$
 (2)

where B and n are constants, was generalized by means of the principle of corresponding states in the form

$$\frac{\lambda p_s t - \lambda_t}{\lambda (p_s t)_c - \lambda t_c} = f\left(\frac{\gamma}{\gamma_d}\right), \tag{3}$$

where subscript c denotes critical data. It is necessary to determine

 $\Delta \lambda_c = \lambda_{(p,t)} - \lambda_{t_c}$

for each of the alkanes. $\Delta \lambda_c$ can be obtained from (1) provided γ_c is known. All experimental data processed by means of (3) revealed very good distribution (average deviation, ±3%) along a single curve; which confirms the validity

AID Nr. 980-9 31 May

where

THERMAL CONDUCTIVITY [Cont'd]

8/233/62/000/006/008/008

of the principle of corresponding states for the class of saturated hydrocarbons in the coordinates of (3). Further, the authors used the relation proposed by Usmanov (1959)

 $\frac{q}{q_{\Delta s}} = f\left(\frac{s_2 - s_1}{R}\right),$ $q = \lambda(t_2 - t_1),$ (4)

 $q_{\Delta s} = \lambda_{\Delta s} (t_1^2 - t_1),$

 s_1 and s_2 are the absolute entropies at temperatures t_1 and t_2 , and R is the universal gas constant. Using relation (4) for n-hexane and n-heptane, the authors obtained very good distribution of the experimental points with a slight scattering of 3% along a single curve. Considerable divergence was found in the neighborhood of the saturation curve.

Card 3/3

14658

S/196/63/000/001/022/035 E073/E435

||.|Y|0 AUTHORS:

Golubev, I.F., Naziyev, Ya.M.

TITLE:

Heat conductivity of n-hexane, n-heptane and n-octane

at various temperatures and high pressures

PERIODICAL: Referativnyy zhurnal, Elektrotekhnika i energetika, no.1, 1963, 7, abstract 1 G35. (Tr. Energ. in-ta.

AN AzerbSSR, v.15, 1962, 84-102, Azerb. summary)

The heat conductivity of n-hexane, n-heptane and n-octane TEXT: in the liquid and gaseous states within temperature range 20 - 360°C and pressures of 1 - 500 kg/cm2 was measured. In the neighbourhood of the critical point, h is strongly dependent on p and For isotherms near to the critical point, and also close to the critical pressure, maxima of heat conductivity were observed extending over a narrow range of pressures, which can presumably be explained by the occurrence of a convective heat exchange in the For determining λ , gap between the cylinders of the bicalorimeter. A detailed the regular temperature variation method was 'used. description of the bicalorimeter and the experimental method is Corrections for the temperature distribution within the given. Card 1/2

Heat conductivity ...

S/196/63/000/001/022/035 E073/E435

instrument, by considering the cooling of the internal cylinder placed into a thermally insulated external cylinder under boundary conditions of the second kind, are described in detail. The equations are derived assuming a constant temperature of the external cooling medium ($\lambda = \times$, $\alpha = \infty$). In the above bicalorimeter, comprising two coaxial cylinders with the gap between them filled by the gas or liquid under investigation, the external cylinder acts as the ambient medium for the investigated and for this cylinder λ has a finite value. Therefore, is necessary to substitute in the equation the real value of mand it is the magnitude of this that is determined when solving the problem.

Abstractor's note: Complete translation.

Card 2/2

S/076/62/036/005/003/013 B101/B110

AUTHORS:

Yefremov, Yu. V., and Golubev, I. F.

TITLE:

Solubility of aminohendecanoic acid in aqueous solutions of

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 5, 1962, 986 - 988

TEXT: In conjunction with the production of high-purity ω -aminohendecanoic acid for the synthetic fiber manufacture, its solubility was investigated in water-alcohol mixtures at 20 - 100°C. The crystallized acid was heated in a sealed ampoule with the alcohol dissolved in water until complete dissolution occurred. Results: (1) The solubility of complete dissolution occurred. Results: (1) the solution of complete dissolution occurred. Results: (1) the solution of complete dissolution occurred. (2) The solubility increases rapidly at higher temperatures and reaches 30% by weight at 100°C (in 46% by weight of ethanol). There are 2 fig-

ASSOCIATION: Institut azotnoy promyshlennosti i produktov organicheskogo sinteza (Institute of the Nitrogen Industry and of Organic Synthesis Products)

Card 1/2

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515910010-9

Solubility of ...

SUBMITTED: July 20, 1960

S/076/62/036/005/003/013 B101/B110

Card 2/2

YEFREMOV, Yu.V.; GOLUBEV, I.F.

Surface tension of aqueous solutions of ammonia. Zhur.fiz.khim. 36 no.5:999-1000 My '62. (MIRA 15:8)

1. Gosudarstvennyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza.

(Ammonia) (Surface tension)

YEFREMOV, Yu.V.; GOIJBEV, I.F.

Surface tension at the liquid - gas interface at high pressures. Zhur. fiz. khim. 36 no.611222-1225 Je 62 (NIRA 1727)

1. Gosudarstvennyy nauchmo-isaledovstel*skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza, Moskva.

IVANOVSKIY, F.P., kand. tekhn. nauk, red.; FURMAN, M.S., doktor khim.nauk, red.; SAMARIN, B.P., red.; KRICHEVSKIY,I.R., prof., doktor khim. nauk, red.; GOLUBEV, I.F., doktor tekhn.nauk, red.; KRASIL'SHCHIKOV,A.I., doktor khim. nauk, red.; KLEVKE, V.A., kand. tekhn. nauk, red.; LEVCHENKO, G.T., kand. khim. nauk, red.; GEL'PERIN, I.I., kand. tekhn. nauk, red.; OYSTRAKH, M.L., red.; KREYSBERG, A.Ya., red.; TSUKERMAN, A.M., red.; KOGAN, V.V., tekhn. red.

[Chemistry and technology of the products of organic synthesis; intermediate products for the synthesis of polyamides] Khimiia i tekhnologiia produktov organicheskogo sinteza; poluprodukty dlia sinteza poliamidov. Moskva, Goskhimizdat, 1963. 255 p. (MIRA 17:3)

1. Moscov. Cosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti. 2. Zamestitel' direktora
Gosudarstvennogo nauchno-issledovatel'skogo i preyektnogo instituta
azotnoy promyshlennosti (for Ivanovskiy). 3. Zamestitel' direktora
po nauchnoy chasti Gosudarstvennogo nauchno-issledovatel'skogo i proyektnogo instituta azotnoy promyshlennosti (for Furman). 4. Glavnyy
inzhener Gosudarstvennogo nauchno-issledovatel'skogo i proyektnogo
instituta azotnoy promyshlennosti (for Samarin).

AGAYEV, N.A.; GOLUBEV, I.F.

Viscosity of n-pentane in the liquid and gaseous state at high pressures and at various temperatures. Gaz.prom. no.5:45-50

(Pentane) (Viscosity)

(MIRA 16:6)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910010-9"

AGAYEV, N.A.; GOLUEEV, I.F.

Generalisation of the data of the viscosity of saturated hydrocarbons at various temperatures and pressures. Khim. i tekh.
topl. i masel 8 no.6:28-30 Je '63. (MIRA 16:6)

(Hydrocarbons) (Viscosity)

AGAYEV, N.A.; GOLUBEV, I.P.

Viscosity of liquid and gaseous n-heptane and n-octane at high pressures and different temperatures. Gaz. prom. 8 no.7: 50-53 '63. (MIRA 17:8)

GOLUBEV, I.F., doktor tekhn. nauk, prof.

Twin differential calorimeter for determining the thermal conductivity of gases and liquids at high pressures and different tamperatures. Teploenergatika 10 no.12:78-82 D 63.

1. Gosudarstvennyy institut azotnoy promyshlennosti.

AGAYEV, N.A.; GOLUBEV, I.F.

Viscosity of n-hexane in the liquid and gaseous state at high pressures and various temperatures. Dokl. AN SSSR 151 no.3:597-600 Jl '63. (MIRA 16:9)

1. Gosudarstvennyy nauchno-issledovatel'skiy i proyektnyy institut azotnoy promyshlennosti i produktov organicheskogo sinteza i Energeticheskiy institut AN AzerbSSR. Predstavleno akademikom V.A.Kirillinym.

(Hexane) (Viscosity)

1 1 22-63 EPF(c)/WT(m)/BIS Pr-4 WW/W

ACCESSION NR: AP3004427

8/0020/63/151/004/0875/0878

AUTHORS: Golubev, I. F.; Agayev, N. A.

58

TITLE: Generalization of data concerning the viscosity of saturated hydrocarbons at various temperatures and pressures.

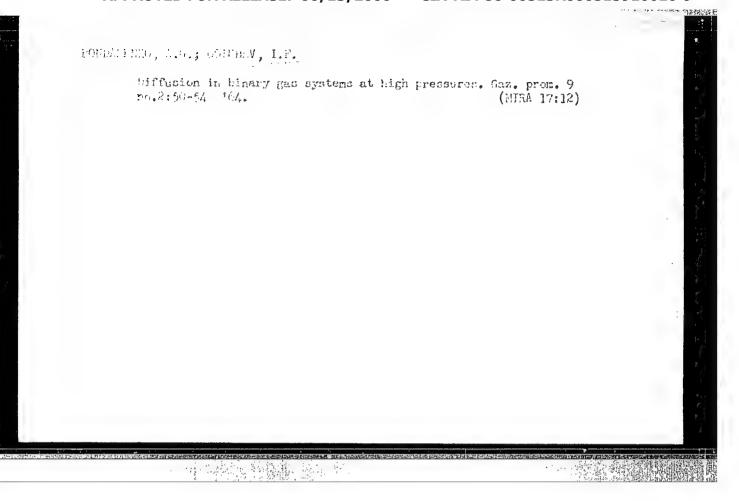
SOURCE: AN SSSR. Doklady*, v. 151, no. 4, 1963, 875-873

TOPIC TAGS: viscosity of hydrocarbon, hydrocarbon, saturated hydrocarbon, methane, ethane, propane, butane, pentane, hexane, heptane, octane.

ABSTRACT: The viscosities of C_1 - C_6 hydrocarbons at various temperatures and pressures are plotted as functions of density and molecular weight. The curves obtained are smooth but without a regularity that would permit obtaining values for C_6 , hydrocarbons. A generalization

Card 1/2

ACCESSION NR: AP3	004427	
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η _(p, T) , η _τ ,	based on corresponding state theory was plotted	r
as a function of $\frac{1}{\rho}$.	This gave a smooth curve fittling all these	
nydrocarbons and wa calculations for va cables and 1 form	as suitable for interpolation and extrapolation alues 0<0/0, ≤3. Orig. art. has: 4 figures and	
- captes and I 1014		
ASSOCIATION: Gosud proyektny*y institu prganicheskogo sint	darstvenny*y nauchno-issledovatel'skiy i ut azotnoy promy*shlennosti i produktov teza (State cientific-research and planning	



GOLUBEV, I.F.; DOBROVOL'SKIY, O.A.

Measuring the density of nitrogen and hydrogen at low temperatures and high pressures by hydrostatic suspension. Gaz. prom. 9 no.5: 43-47 '64. (MIRA 17:6)

GOII'BEV, I.F.; KAL'SINA, M.V.

Heat conductivity of nitrogen and hydrogen at temperatures ranging from 20 to 195° C and pressures from 1 to 500 atm.

Gaz. prom. 9 no.8:41-43 '64. (MIRA 17:9)

Measuring the density of methens by the hydrostatic suspension method. Gaz. prom. 9 no.11:47-48 64. (MDA: 17:12)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910010-9"

GOLUBEY, I.F.; AGAYEV, N.A.; ABAS-ZADE, A.A., prof., red.;
RASHEVSKAYA, T., red.

[Viscosity of saturated hydrocarbons] Viazkost' predel'-nykh uglevodorodov. Baku, Azerbaidzhanskoe gos. izd-vo, 1964. 159 p. (MIRA 17:12)

1. Chlen-korrespondent Akademii pedagogicheskikh nauk RSFSR (for Abas-Zade).

GOLUBEV, I.F., doktor tekhn. mauk, prof.; SOKOLOVA, V.P., inzh.

Heat transmission of ammonia at different temperatures and pressures. Teploenergetika 11 no.9:64-67 S '64. (MIRA 18:8)

1. Gosudarstvennyy institut azotnoy promyshlennosti.

"APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86

CIA-RDP86-00513R000515910010-9

DOEROVOL'SKIY, O.A.; COLUBEV, I.F.

Measuring the density of helium. Gaz. prom. 10 no.7:53-54 '65.

(MIRA 18:8)

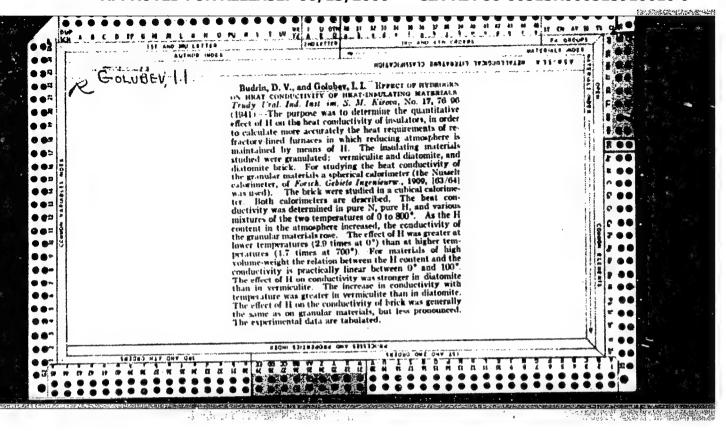
"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515910010-9

COLUBEV, Ivan Fedorovich, prof.; OZEROV, V.N., red.

[Soil science with the fundamentals of geobotany] rochvovedenie s osnovami geobotaniki. Moskva, Kolos, 1964.

398 p. (MIRA 18,1)



GOLUBEY, I.I., AND KAYUSHIN, L. P., L'VOV, K. M.

"Study of the Excitable Tissues (Nerve, Muscle) with ESR."

report submitted for the lst Intl, Biophysics Congress, Stockholm
31 July - 4 August 1961.

GOEUBEV, I.I., KAYUSHIN, L.P., LVOV, K.M.

"Study of the Excitable Tissues (Nerve, Muscle) with ESR."

report presented at the Intl. Biophysics Congress, Stockholm, Sweden, 31 July - 4 August 1961.

Institute of Biophysics, USSR Academy of Sciences, Moscow, USSR.

GOLUBEV. I. M., KOFMAN, Y. B., SAZONENKO, M. K., KAYUSHIN, L. P., and LVOV, K. M. (USSR)

"Free Radicals in Muscle and Muscle Froteins."

Report presented at the 5th International Biochemistry Congress, Moscow, 10-16 Aug 1961

KAYUSHIN, L.P.; KOFMAN, Ye.B.; GOLUBEV, I.N.; L'VOV, K.M.; PULATOVA, M.K.

Transfer of energy released by the hydrolysis of adenosine triphosphoric acid to contractile proteins. Biofizika 6 no. 1:20-23 '61.

(MIRA 14:2)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(MUSCLES-MOTILITY) (ADENOSINETRIPHOSPHORIC ACID)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910010-9"

VAN LIN-FAN [Wang Ling-fang]; L'VOV, K.M.; SAZONENKO, M.K.; KAYUSHIN, L.P.; GOLUBEV, I.N.

Role of free radicals in muscle contraction. Biofizika 7 no.41 479-480 '62. (MIRA 15:11)

1. Institut biologicheskoy fiziki AN SSSR, Moskva.
(MUSCLES-MCTILITY) (RADICALS (CHEMISTRY))

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910010-9"

ACCESSION NR: AP4042475

5/0217/64/009/004/0423/0427

AUTHOR: Umrikhina, A. V.; Golubev, I. N.; Kayushin, L. P.; Krasnovskiy, A. A.

TITLE: A study of the paramagnetic properties of chlorophyll and its analogs

SOURCE: Biofizika, v. 9, no. 4, 1964, 423-427

TOPIC TAGS: tetrapyrrol pigment, chlorophyll, ethyl chlorophyllide, pheophytin, phthalocyanin, magnesium phthalocyanin, EPR signal, paramagnetic property, light effect, chlorophyll aggregation, EPR signal temperature dependence, protoporphyrin, hematoporphyrin

ABSTRACT: The article describes a study of the EPR signals of chlorophyll and some of its structurally different analogs, namely, pheophytin, ethyl chlorophyllide, hemato- and protoporphyrin, and phthalocyanin and Mg-phthalocyanin. The pigments were examined in the form of solid crystalline samples in glass ampuls, either evacuated or in the presence of air. All the pigments gave a similar

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ACCESSION NR: AP4042475

EPR signal in the dark; the signal was a singlet with a g-factor close to that of a free electron; different pigments displayed small variations in signal width. This observation led to the conclusion that the presence of the unpaired electrons producing the signal is the result of the system of conjugated double bonds of the porphyrin ring, and not the presence or absence of such structural elements as a phytol group, a cyclopentanone ring, or side radicals. In addition, the effect of light on the EPR signal was studied for all the pigments and the effect of temperature and oxygen for chlorophyll a + b only. It was found that all solid pigments produced an increased signal in vacuum which attained its maximum in about 5-10 min. In air the signal (for chlorophyll a + b) increased more than in vacuum. Experiments with films and solutions of chlorophyll a + b indicated that the degree of the pigment aggregation has a significant effect on the signal. The effect of light on phthalocyanin and Mg-phthalocyanin was somewhat different, resulting in an initial increase, then a subsequent decrease of the signal. The temperature dependence of the chlorophyll a + b signal has a maximum at approximately 40C. The nature of the photoinduced signal was not investigated more closely; it is believed that this signal is caused by unpaired

Card 2/3

ACCESSION NR: AP4042475

electrons which arise as a result of an interaction of the excited molecules of chlorophyll with oxygen molecules. It is concluded that the unpaired electrons are dislocated in the conjugated double—bond system or in "active centers" and defects of the crystal lattice of the pigments. The study is considered qualitative, and an evaluation of the quantum yield of the formation of unpaired electrons is suggested. Orig. art. has: 6 figures.

ASSOCIATION: Institut biologicheskoy fiziki AN SSSR, Moscow (Biophysics Institute, AN SSSR); Institut biokhimii im. A. N. Bakha, AN SSSR, Moscow (Biochemistry Institute, AN SSSR)

SUBMITTED: 10Jun62

ATD PRESS: 3073

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NO REF SOV: 003

OTHER: 001

Card 3/3

AUTHOR:

Golubev, I.S.

TITLE:

Some Problems of Stability of Sandwich Plates with a Light Filler (Nekotoryye voprosy prochnosti

trekhsloynykh plastin s legkim zapolnitelem)

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Aviatsionnaya

tekhnika, 1959, Nr 2, pp 62-71 (USSR)

ABSTRACT:

The author considers the equilibrium of sandwich panels which constitute elements of an aircraft wing

(Fig 1) under the following assumptions:

1) there is no twisting (torsion) of the wing;

2) the width of each panel is greater than its length and the deformations of the panels have a cylindrical

character;

3) within the boundaries of each panel considered (i.e. between two neighbouring wing ribs which are taken to be absolutely rigid in their plane) the wing is of a constant strength, i.e. the normal stress

 $\sigma = \frac{M_{\text{wing}Y}}{I_{\text{wing}}} = \text{const}$

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(Mwing is the wing bending moment, Iwing is the

Some Problems of Stability of Sandwich Plates with a Light Filler

second moment of the wing cross-section area and 2Y is the wing thickness). This assumption means that bending moment varies linearly and that there are no tangential stresses in the skin of the wing or in the walls of the spars. In practice they exist, of course, but their effect on the stresses in the central part of the panel are not important compared with the normal stresses: 4) the thickness of the filler and the skin within each panel are constant. Resulting from the second assumption instead of the whole panel we may now consider only a plate of unit thickness, which as shown in Fig 2 is acted upon by unknown constraining moments Mm on the supports, an axial force $P_{kp/k} = 2\sigma\delta = P_{x}$, the reactions of the ribs $P_{H} \gtrsim P_{w}$ and the uniformly distributed transverse load q_{a} . Depending upon the mechanical properties of the filler and the relative thickness of the outer skin and the filler layer, either symmetric or skew-symmetric deformation can occur. Considering first the skew-

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symmetric buckling of the plate, which is most likely to occur in practice, due to the above loading the panel will be in compression, bending and shear. The shearing force will be taken by the filler and since its shear modulus $G_{\rm H}$ is much less than the corresponding modulus G of the outer skin, the resulting deformation due to shear cannot be neglected. By considering the curvature of the panel as resulting from bending and shearing (Eq 1) the differential equation for the deformation of the axis of the panel is obtained (Eq 8) in which the is a coefficient representing the share of the outer skin in transmitting the shear force. The unknown restraining moment MT on the support is determined from the geometric conditions of the deformation of the panel by considering the whole ring, which leads to Eq (10), while transverse deflection y is obtained by integration of the differential equation for the whole wing, which results in Eq (11),

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where 2% is the taper angle of the wing in the Xoy-plane. By these relations Eq (12) is finally obtained giving MTO hence the maximum normal stress in the outermost fibres may be computed by Eq (13), its value at x = 0 and x = 2/2 being as given by Eq (14) and (14') respectively. The tangential stress is given by Eq (15), the maximum value of which occurs for

Turning now to the problem of the ultimate load carrying capacity of the panel, it is assumed that the destruction of the structure will occur when the total stress at any point of the outer skin or the filler reaches its limiting value (Eq 16). For the case

 $\frac{k!}{2}$ = || is possible, M_{H} and w tend to grow

indefinitely and the axial force Py obtains its maximum possible value as given by Eq (17). A similar formula has been obtained by S. Timoshenko (Ref 4) for compression and bending of rods when shear is taken

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Some Problems of Stability of Sandwich Plates with a Light Filler

into account. Experiments were made by the author on specimens 370 mm long with total thickness H in the range from 5 to 22 mm. Fig 3 shows the method of loading and the results of these experiments as well as the theoretical curves, Eq (14), (15), (16) and (27). The skin was made of dural ALCLAD 24 ST AN-A13, 0.55 mm in thickness. The filler was thermoreactive foamy plastic FK-20 of specific gravity 0.15 to 0.18 gm/cm2. The results are valid for panels whose widths are 3 to 4 times their lengths but they may be used for the analysis of panels which are in compression along their shorter sides which are simply supported, while longer sides are clamped, as shown in Fig 4, where in addition to this compressive load the panel is also bent by a transverse uniformly distributed load $q\alpha$. As shown by V.M. Plekhanov (Ref 3), sandwich panels deform almost in the same manner as the isotropic panels, hence from now on they will be considered as isotropic. Further, it is shown in Ref 1 and 2, that the effect of the shorter sides extends over a width equal to half the length of the panel inwards from each

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Some Problems of Stability of Sandwich Plates with a Light Filler

side (see Fig 4). Assuming now that the cross-section of the wing remains plane (i.e. it does not warp), that the change in length of the panel ($\Delta \ell$) is partly due to compression and partly due to bending of the panel and that the stress in the central portion is constant — $\sigma(2)$ — and increasing linearly to $\sigma(1)$ on the edges, Eq (20) is developed, which together with Eq (19) solves the problem, the corresponding limiting stresses being given by Eq (21) to (23). All these relations apply to the case of skew-symmetric warping of the skin. For the case of symmetric warping, the skin behaves like a plate on an elastic medium and its deflection is given by Eq (24). Depending upon the parameter of Eq (25) (where D is the cylindrical rigidity of the skin, EH modulus of elasticity of the filler, H is the mean thickness of the panel, δ is the thickness of the skin and σ is the compressive stress in it) the solution of Eq (24) will be either that of Eq (26) or (26). Numerical analysis

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of these solutions show that if $\kappa < 0$, u₂ are nearly equal zero and panel deforms skew-symmetrically, and if $\kappa > 0$, u₁ is effective and panel deforms symmetrically. The value of σ for $\kappa = 0$ determines the load carrying capacity of the panel for symmetric case of deformation (Eq 27) which has been confirmed by the experiments. There are 4 figures and 4 Soviet references.

ASSOCIATION: Moskovskiy aviatsionnyy institut, Kafedra 8-1 (Moscow Institute of Aeronautics, 1st Chair of Aircraft Structures)

SUBMITTED: January 2, 1959

Card 7/7

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910010-9"

GOLUBEV, I. S., Cand Tech Sci (diss) -- "Computation of strength and selection of parameters for plane three-layer panels with light filler". Moscow, 1960.

10 pp (Min Higher and Inter Spec Educ RSFSR, Moscow Order of Lenin Aviation Inst im Sergo Ordzhonikidze), 160 copies (KL, No 15, 1960, 134)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910010-9"

Remote post-commissurctomy latent rheumatic carditis. Klin, med. 36 no.5173-79 My '58 (MIRA 11:7)

1. Iz kafedry propedevtikirnutrennikh boleznay (dir. - prof. A.W. Damir) II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova) (COMMISUROTOMY, complications, postop. remote latent rheym. carditis (Rus)) (RHEUMATIC HUART DISMASM, post-commissurctomy latent (Rus))

columns, i.s., Guad led Soi -- (diec) Birg assis of latent forms of recommittee in path ate suffer Fieg Sees rhoundie scleposis of the mittal valve and subject to a consistent entry operation."
Too, 1939. 16 pp (Second For Sete 2 ed Jest 18 d.I. Piregov),
250 copies (U1,30-59, 122

-46-

GOLUBEV, I.S.

APPROVED FOR REPEASE 169 1392000 commetative presentes 13 Rette 515910010-9

(MIRA 12:2)

1. Is kliniki propedevtiki vnutrennikh bolezney (sav. - prof.

A.M. Damir) pediatricheskogo fakuliteta II Moskovskogo meditsinskogo instituta imeni N.I. Pirogova.

(COMMISSUROTOMY.

preop. diag. of rheum.(Rus))
(RHEUMATIC HEART DISEASE, diagnosis,
preop. in commissurotomy (Rus))

"APPROVED FOR RELEASE: 06/13/2000 CIA

CIA-RDP86-00513R000515910010-9

GOLUBEY, I.S., kand.med.nauk; ZOL'NIKOV, S.M., kand.med.nauk; KOVAHEV, V.A., kand.med.nauk

Preoperative treatment of patients with mitral stenosis with reserpine and its effect on the arterial pressure during anesthesis. Khirurgiia no.1:50-57 *62. (MIRA 15:11)

1. Iz Instituta serdechno-sosudistoy khirurgii (dir. - prof. S.A. Kolesnikov, nauchnyy rukovoditel' - akad. A.N. Bakulev)
AMN SSSR.

(MITRAL VALVE—DISEASES) (BLOOD PRESSURE)
(RESERPINE)

ZOL'NIKOV, S. M.; GOLUBEV, I. S.

Effect of reserpine on arterial pressure during anesthesia in an experiment on animals. Eksper. khir. i anest. no.2:70-76
162. (MIRA 15:6)

1. Iz Instituta grudnoy khirurgii (dir. - prof. S. A. Kolesnikov, nauchnyy rukovoditel - akad. A. N. Bakulev) AMN SSSR.

(RESERPINE) (ANDSTHESIA) (BLOOD PRESSURE)

GOLUBEV, I.S., kand. med. nauk

Preoperative prepatation of patients with rheumatic heart defects. Kardiologia 5 no.2:74-76 '63 (MIRA 17:2)

1. Iz kardiologicheskogo otdeleniya (zav - prof. V.Ye. Nezlin) Instituta serdechno-sosudistoy khirurgii (dir.-prof. S.A.Kolesnikov, nauchnyy rukovoditel* - akademik A.N.Bakulev) AMN SSSR.

CHELIKIDI, R.F.; GOLUBEV, I.S. (Moskva, I-327, g. Babushkin, Kalyayevskaya ulitsa, dom 25, kv.7); ZOL'NIKOV, S.M.

Effect of reserpine on the dynamics of the electrocardiogram during mitral commissurotomy. Grud. khir. 6 no.2:58-62 Mr-Ap '64. (MIRA 18:4)

1. Laboratoriya funktsional'noy diagnostiki (zav. - kand. med. nauk G.G.Gel'shteyn) i laboratoriya anesteziologii (ispolnyayushchiy obyazannosti zaveduyushchego - kand. med. nauk S.M.Zol'nikov) Instituta serdechno-sosudistoy khirurgii (dir. - prof. S.A.Kolesnikov, nauchnyy rukovoditel' - akademik A.N.Bakulev) AMN SSR, Moskva.

"APPROVED FOR RELEASE: 06/13/2000

CIA-RDP86-00513R000515910010-9

GOLUBEV, I.S., kand. med. nauk; RYZHKOV, Ye.V., kand. med. nauk; KHARIN, V.Yu., kand. med. nauk

Arteriovenous aneurysm of the lung. Sov. med. 27 no.3:28-32 Mr '64. (MIRA 17:11)

1. Institut sordechno-sosudistoy khirurgii (dir. - prof. S.A. Kolesnikov, nauchnyy rukovoditel' - akademik A.N. Bakulev) AMN SSSR.

ZOL'NIKOV, S.M.; GOLUBEV, I.S., kand. med. nauk; PARFENOV, A.P., kand. med. nauk

Use of pyridoxine in patients with rheumatic heart defects and its

influence on anesthesia. Khirurgiia 40 no.7:23-28 Jl 164.

1. Institut serdechno-sosudistoy khirurgii (dir. - prof. S.A. Kolesnikov, nauchnyy rukovoditel! - akademik A.N. Bakulev) ANN BSSR, Moskva.

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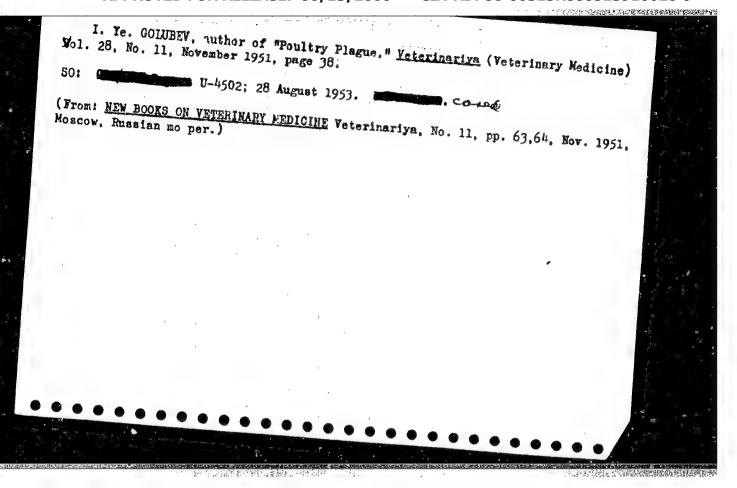
GULUBEV. I. YE.

27273. GOLUBEV, I. YE. Vzaimodeystvie organisma i usloviy vneshney sredy na techenie brutselleznoy infektsii u loshadey. Veterinariya, 1949, No.9, s. 20-22.

So: Letopis' Zhurnal'nykh Statey, Vol. 36, 1949.

"Interaction of the Organism and Environmental Conditions on the Course of Brucellosis in Horses," $L^t vov\ Vet.$ Inst.

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910010-9"



Name: GOLUBEV, Iosif Yefimovich

Dissertation: Brucellosis of Horses (Epizcothology: Pathogenesis,

Clinical-Anatomical Changes, Course, Diagnostics,

Measures)

Degree: Doc Vet Sci

Affiliation: / not indicated /

Defense Date, Place: 11 Jul 56, Council of All-Union Inst of Exper-

imental Veterinary Science

Certification Date: 17 Nov 56

Source: BMV0 6/57

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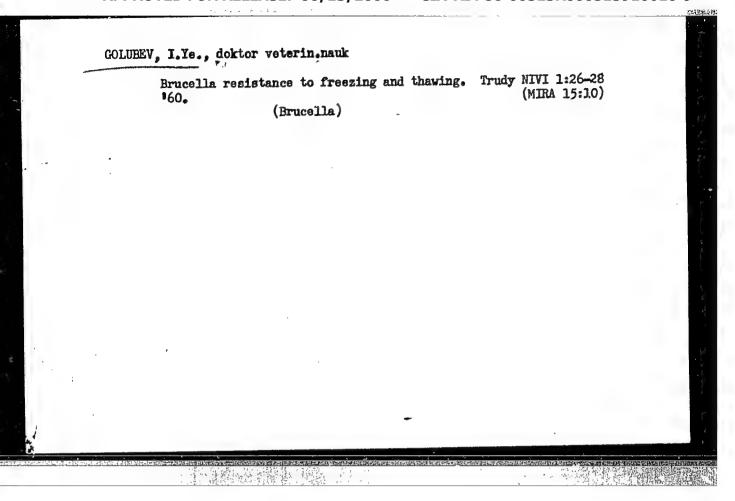
GOMBRY, I.Ys. [Holubeu, I.M.]; TUZOVA, R.V. [Tuzava, R.V.];

ZHARYKOV, I.S. [Zharykan, I.S.]

Moisei Kalinikovich IUskovets. Vestsi AN BSSR. Ser.biial.nav.

(MIRA 11:11)

(IUskovets, Mosei Kalinikovich, 1898)



GOLUBEV, I.Ye., prof.; GRIGOR'YEV, I.F., kand.veterin.nauk; KRAYECVA, V.I., kand.veterin.nauk; GAVRICHENKOV, A.I., kand.veterin.nauk; DOLMATOVICH, V.M., veterinarnyy vracn; SHCHERBAKOV, A.F., veterinarnyy vrach

Immunization of swine against cholera with avirulent lapinized dry strain ASV viral vaccine. Veterinariia 37 no.10:29-32 0 '60. (MIRA 15:4)

1. Belorusskiy nauchno-issledovatel'skiy veterinarnyy institut.
(Hog cholera) (Vaccination)

GOLUBEY - PROF. BELORUSSIAN NIVI :

GOLUBEV, I.Ye., prof.; BOYKO, M.S., kand. biolog. nauk; KHOKHLOVA, I.I., mladshiy nauchnyy sotrudnik

The right regimen of animals. Veterinariia 40 no.4:67-69 Ap '63. (MIRA 17:1)

1. Belorusskiy nauchno-issledovatel'skiy institut zhivot-novodstva.

VOLYNTSEV, Ye., saslushennyy uchitel' shkol Rossiyskoy Sotsialisticheskoy Federativnoy Sovetskoy Respubliki (Moscow); GOLUBEV, K. (Moscow); KISELEVA, A. (Moscow) [reviewers]; BOGDANOV, N.K., BOHISOV, S.A.; ERISHOV, I.S.; STRATILATOV, P.V. [authors].

New methodological manual for schools for the working youth ("Problems in teaching mathematics in the 5th - 10th grades of schools for the working youth." N.M.Bogdanov, S.A.Borisov, I.S.Ershov, P.V.Stratilatov. Reviewed by E.Volyntsev, K.Golubev, A.Kiseleva).

Mat.v shkole no.6:74-75 N-D '53. (MIRA 6:12)

(Mathematics--Study and teaching) (Technical education)

(Mathematics-Study and teaching) (Technical education) (Bogdanov, N.M.) (Borisov, S.A.) (Ershov, I.S.) (Stratilatov, P.V.)

GOLUEEV, K. I., Eng.

Electronic Control

Diagram for automatic operation of reserve supply in electronic regulators, Tab. energ. 3, No. 1, 1953.

Monthly List of Russian Accessions, Library of Congress, Nay 1953. Unclassified.

34931 g/119/62/000/003/002/**0**09 D201/D303

7,7/00 AUTHORS: Golubev, L.A., Gorenshteyn, L.M., and Petrukhin, M.I.

TITLE:

A method of fast exact multiplication of binary numbers

in a digital computer

Priborostroyeniye, no. 3, 1962, 7 - 9

TEXT: The authors consider an exact multiplication method which obtains 2n-digit products with (n + 1)-digit adders and register. The method is based on an adder with a ring carry and a multiplicandregister with a ring shift. Since in the process of multiplication the least significant digit of the multiplier does not affect the consecutive sums of partial products, when the first sum of the consecutive sums of partial products, when the first sum of partial products is formed, the digit which will not take part in further coding will be the 2n-th digit of the product and the (2n-k+1)-th product digit in the forming of the k-th sum, where k-an integer between 1 and n. This least significant digit is formed an integer between 1 and n. This least significant digit is formed at the adder at the beginning of the addition process. As a result, at the adder at the beginning of the addition process. n free digits are formed in the adder which are used in each multi-

Card 1/2

GOLUBEV, L.A.; GORENSHTEYN, L.M.

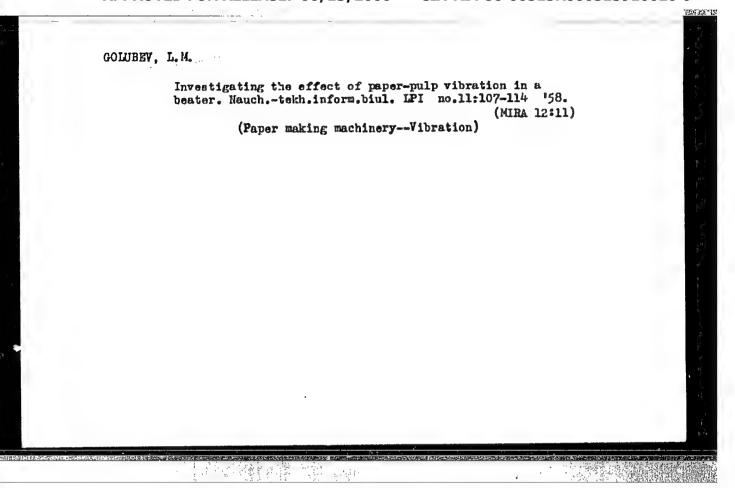
Method of accelerated division of binary numbers using a digital computer. Priborostroenie no.9:10-11 S '63. (MIRA 16:9) (Electronic digital computers)

APPROVED FOR RELEASE: 06/13/2000 CIA-RDP86-00513R000515910010-9"

NIKOLAYEV, A.M.; GOLUBEV, L.G.

Basic hydrodynamic characteristics of a fluidized bed. Izr. vys. ucheb. zav., khim i khim. tekh. 7 no.5:855-857 '64 (MIRA 18:1)

l. Kafedra khimiche skogo mashinostroyeniya Kazanskogo khimiko-tekhnologicheskogo instituta imeni S.M. Kirova.



GOLUBEV, L.M. [Holubley, L.M.]

Effect of "common" infections on the maternal organism and the fetus and its appendages. Pediat. akush. ginek. no.3: 44-47 '63 (MIRA 17:1)

1. Otdel akusherstva i ginekologii (zav. - kand. med. nauk L.T.Volkova) Khar'kovskogo nauchme-issledovatel'skogo instituta okhrany materinstva i detstva (direktor - kand. med. nauk O.T.Kornilova). Nauchmyy rukovoditel' - prof. V.I.Konstantinov.

GOLUBEV, L.M.

Performance of a machine for dewatering and formation of paper sheets made of fibrous materials. Trudy LPI no.254:106-114 '65. (MIRA 19:1)

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GOLUBEY L. S

PHASE I BOOK EXPLOITATION

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Kokoshkin, Pavel Aleksandrovich, and Lev Solomonovich Golubev

Novyye avtomatizirovannyye vypryemitel'nyye ustroystva dlya elektropitaniya apparatury provodnoy svyazi; informatsionnyy stornik (New Automated Rectifier Devices for the Power Supply of Wire-Communication Apparatus; Information Handbook) Moscow, Svyaz'izdat, 1960. 73 p. (Series: Tekhnika svyazi) 12,500 copies printed. Errata slip inserted.

Sponsoring Agencies: Tekhnicheskoye upravleniye Ministerstva svyazi SSSR; Tsentral'noye konstruktorskoye byuro Ministerstva svyazi SSSR.

Resp. Ed.: V.N. Kuleshov; Tech. Ed. S.F. Ksrabilova; Ed.: N.M. Kondrashina.

PURPOSE: This handbook is intended for technical personnel concerned with the automation of the power supply in wire-communication apparatus.

COVERAGE: The handbook contains a short description of the designs and circuits of the new automated VU rectifier devices developed by the Tsentral'noye konstruktorskoye byuro Ministerstva svyazi SSSR (Central Design Office of the

Card 1/3

New Automated Rectifier Devices (Cont.)

SOV/4823

Ministry of Communications UBSR) at the request of the Tekhnicheskoye upravleniye (Technical Administration) of that Ministry. Characteristics of semiconductor rectifiers and cold-rolled steels used in these devices, as well as methods of engineering design of their principal components are reviewed. Sections 1, 2, 3, 4, and 6 were written by P.A. Kokoshkin; section 5 by L.S. Golubev. There are 10 references, all Soviet.

TABLE OF CONTENTS:

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1.	New Series of Automated Rectifier Devices For the Power Supply of Wire-Communication Apparatus	4
2.	Diagram and Principle of Operation of the Rectifier Device	9
3•	Semiconductor Rectifiers	18
4.	Transformers and Saturable Reactors Used in Rectifier Devices	35
Car	1-2 /7-	

L 11893-66 EWT(1)/EWT(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) JD/GG

ACC NR: AT6002249

SOURCE CODE: UR/2564/65/006/000/0193/0198

AUTHOR: Golubev, L.V.; Tuchkevich, V.M.; Shmartsev, Yu. V.

ORG: none

TITLE: Growing of heavily doped dislocation free germanium single crystals

SOURCE: AN SSSR. Institut kristallografii. Rost kristallov, v. 6, 1965, 193-198

TOPIC TAGS: single crystal growing, germanium single crystal, antimony, gallium, crystal dislocation

ABSTRACT: After discussing the effect of the conditions of growing single crystals by Czochralski's method on the dislocation density, the authors discuss the technique which they used to grow germanium single crystals doped with So or Ga and relatively free of dislocations. Two types of apparatus were employed: one for growing small-diameter crystals in a hydrogen atmosphere, and another for growing crystals up to 30 mm in diameter in a vacuum. The dislocation density was measured with an MBI-6 microscope after alkaline etching of polished sections. Fifteen germanium single crystals containing impurities in concentrations from 10¹⁷ to 10¹⁹ cm⁻³ for So and from 10¹⁷ to

Card 1/2

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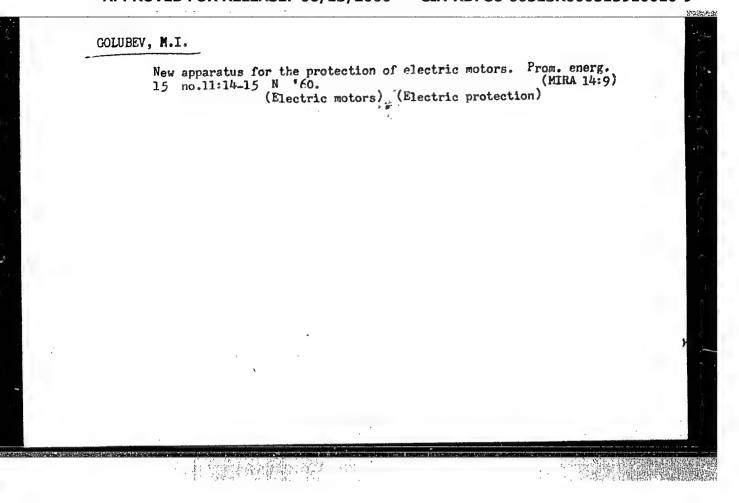
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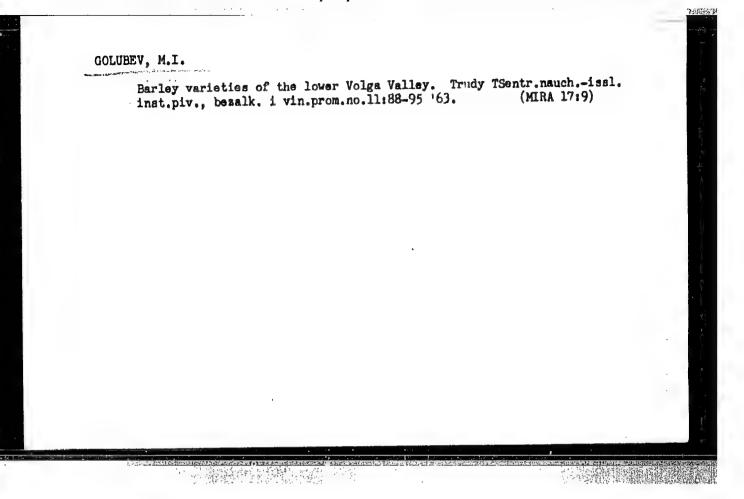
 $6 \times 10^{19} \, \mathrm{cm^{-3}}$ for Ga were grown. The dependence of dislocation mobility on the concentration of Sb in Ge was studied at 290 and 4.2K. The mobilities observed at 4.2K, up to 1100 cm²/V sec in samples with impurity concentrations in excess of $10^{18} \, \mathrm{cm^{-3}}$, were the highest of all obtained thus far. Orig. art. has: 5 figures and 2 formulas.

SUB CODE:

20,6 SUBM DATE: none / ORIG REF: 013 / OTH REF: 017

Miscellaneous - Communications 1/1 Pub. 133 - 10/23 Card Golubev, M. A., Senior Economist of the Leningrad Division of Mail Authors Transportation Service at the "Moscow RR Station" (Leningrad Terminal) 1 Cutting down production costs by the Division of Mail Transportation Title Service (Leningrad RR Terminal Station) Periodical : Vest. avyazi 11, 16 - 17, Nov 1954 2 Data on the net-cost of mail handling, for the years 1945-1953, at Abstract the Moscow RR Station; in Leningrad, are presented. It appears that the net-cost of handling the various classes of mail within the premises of the station, from the moment of its arrival until its delivery to the train, has been cut, during the above mentioned period, by 60%. Plans for further reduction of net-cost of mail handling are outlined. Graph. Institution: Submitted:





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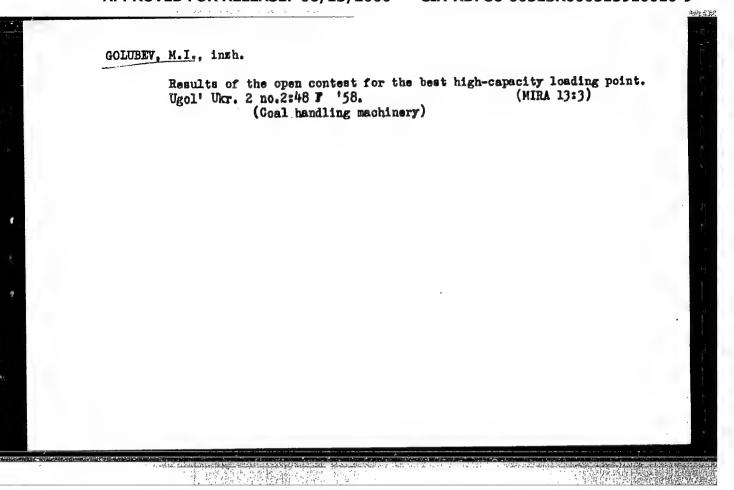
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